Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (previously amended) A process for cleaning a surface of a semiconductor wafer, which comprises:
 - providing a wafer;
 - conveying a component selected from the group consisting of: a dense gas component, a liquid component and a mixture thereof to a bellows accumulator having a bellows therein;
 - applying an elevated pressure to said bellows sufficient to discharge said component from said bellows onto said surface of said wafer; and contacting said component with said surface of said wafer to clean said wafer.
- 2. (original) The process of claim 1, wherein said dense gas component is dense carbon dioxide or supercritical carbon dioxide.
- 3. (original) The process of claim 2, wherein said liquid component is an organic liquid component soluble or miscible in dense carbon dioxide or supercritical carbon dioxide.
- 4. (original) The process of claim 1, wherein said liquid component is selected from the group consisting of: isopropyl alcohol, hydrofluoric acid, pyridine and combinations thereof.

- 5. (original) The process of claim 1, wherein said elevated pressure is applied to said bellows via a compressed gas.
- 6. (currently amended) The process of claim 1, wherein said component is a mixture and said step of contacting said component with said surface of said semiconductor wafer takes place in a pressure chamber, and further comprising the steps of:

charging said pressure chamber with said mixture to a free headspace pressure of about 1000 psia or more, and

discharging said mixture from said bellows at a flow rate sufficient to impart a mixture velocity of about 10 cm/sec or more.

7. (currently amended) The process of claim 1, wherein said component is a mixture and said step of contacting said component with said surface of said semiconductor wafer takes place in a pressure chamber, and further comprising the steps of:

charging said pressure chamber with said mixture to a free headspace pressure of about 2400 psia or more, and

discharging said mixture from said bellows at a flow rate sufficient to impart a mixture velocity next to the wafer surface of about 50 cm/sec or more.

8. (previously amended) A process for cleaning a surface of a semiconductor wafer, which comprises:

providing a wafer;

conveying a dense gas component to a first bellows accumulator having a first bellows therein:

conveying a liquid component to a second bellows accumulator having a second bellows therein;

applying an elevated pressure to said first bellows sufficient to discharge said dense gas component from said first bellows onto a surface of said wafer; applying an elevated pressure to said second bellows sufficient to discharge said liquid component from said second bellows onto said surface of said wafer; and

contacting said dense gas component or said liquid component with said surface of said wafer to clean said wafer.

- 9. (original) The process of claim 8, wherein said elevated pressure is applied to said second bellows via said dense gas component.
- 10. (original) The process of claim 8, wherein said dense gas component and said liquid component are mixed prior to application to said surface of said wafer.
- 11. (previously amended) A process for cleaning a surface of a semiconductor wafer, which comprises:

providing a wafer;

conveying a dense gas component to a first accumulator wherein said first accumulator is a bellows accumulator having a first bellows therein; conveying a liquid component to a second accumulator; applying an elevated pressure to said first bellows sufficient to discharge said dense gas component from said first bellows onto said surface of said wafer; applying an elevated pressure via said dense gas component to said second accumulator sufficient to discharge said liquid component from said second accumulator onto said surface of said wafer; and contacting said dense gas component and said liquid component with said surface of said wafer to clean said wafer.

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- 12. (original) The process of claim 11, wherein said dense gas component and said liquid component are mixed prior to application to said surface of said wafer.
- 13. (previously amended) A system for cleaning a surface of a semiconductor wafer, which comprises:
 - a bellows accumulator having a bellows therein adapted to receive and retain a component selected from the group consisting of a dense gas component, a liquid component and a mixture thereof;
 - a means for applying an elevated pressure to said component sufficient to discharge it from said bellows onto a wafer;
 - a chamber adapted to receive and retain said semiconductor wafer and receive said component.
- 14. (previously amended) A system for cleaning a surface of a semiconductor wafer, which comprises:
 - a first accumulator wherein said first accumulator is a bellows accumulator having a bellows therein adapted to receive and retain a dense gas component;
 - a means for applying an elevated pressure to said dense gas component sufficient to discharge it from said bellows onto a wafer;
 - a second accumulator adapted to receive and retain a liquid component;
 - a means for applying an elevated pressure to said liquid component sufficient
 - to discharge it from the second accumulator onto said wafer;
 - a chamber adapted to receive and retain said semiconductor wafer and receive said dense gas component and said liquid component.
- 15. (original) The system of claim 14, further comprising a means adapted to receive and mix said dense gas component and said liquid component prior to said chamber.

16. (previously amended) A process for mixing a dense gas component and a liquid component, which comprises:

conveying a dense gas component to a first accumulator wherein said first accumulator is a bellows accumulator having a first bellows therein; conveying a liquid component to a second accumulator; applying an elevated pressure to said first bellows sufficient to discharge said dense gas component from said first bellows; applying an elevated pressure to said second accumulator sufficient to discharge said liquid component from said second accumulator; and combining the discharged dense gas component and the discharged liquid component to form a mixture.

- 17. (original) The process of claim 16, wherein the second accumulator is a second bellows accumulator.
- 18. (original) The process of claim 16, wherein said dense gas component is dense carbon dioxide or supercritical carbon dioxide.
- 19. (original) The process of claim 16, wherein said liquid component is an organic liquid component soluble or miscible in dense carbon dioxide or supercritical carbon dioxide.
- 20. (original) The process according to claim 16, wherein said liquid component is selected from the group consisting of: isopropyl alcohol, hydrofluoric acid, pyridine and combinations thereof.
- 21. (Canceled).